# GOVERNMENT OF INDIA
# NON-CONVENTIONAL ENERGY SOURCES
# LOK SABHA

UNSTARRED QUESTION NO:6565
ANSWERED ON:09.05.2002
EXPLORATION OF NON CONVENTIONAL ENERGY SOURCES
Y.G. MAHAJAN

**Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:**

(a) whether the Government have formulated any scheme to explore various sources of non-conventional energy;

(b) if so, the works carried out under the scheme till date; and

(c) the time by which this scheme is likely to be completed?

## Answer

MINISTER OF STATE OF THE NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN)

(a) & (b): The Ministry of Non Conventional Energy Sources has been implementing wide ranging programmes based on major sources such as solar, wind, small hydro power and biomass for development and promotion of non-conventional energy throughout the country. The details of estimated potential and achievements made under various non-conventional energy programmes as on 31st March, 2002, are given in the Annexure.

(c): The exploration of non-conventional energy is an ongoing and continuous process depending on the available financial resources both public and private and technical feasibility and economic viability of available technologies.

Annexure referred to in reply to Parts (a) & (b) of Lok Sabha Unstarred Question No.6565 for 09.05.2002 regarding exploration of non-conventional energy sources.

Renewable Energy Potential and achievements under various programmes of Non-conventional energy sources as on 31st March 2002

| Source/System | Approximate Potential | Achievement (as on 31-03-2002) |
|---|---|---|
| A. Power from Renewables | | |
| 1. Solar Photovoltaic Power | - | 1.90 MW |
| 2. Wind Power | 45,000 MW | 1617 MW |
| 3. Small Hydro Power (up to 25 MW) | 15,000 MW | 1437.47 MW |
| 4. Biomass Cogeneration Power | 19,500 MW @ | 381.3 MW |
| 5. Biomass Gasifier | - | 51.3 MW |
| 6. Energy Recovery from wastes | 1,700 MW | 21.98 MW |
| Power from Renewables(total) | 81,200 MW | 3510.95 MW |
| B. Decentralized Energy Systems | | |
| 7. Family-size Biogas plants | 120 lakh | 33.14 lakhs |
| 8. CBP/IBP/NBP Plants | - | 3790 Nos. |

9. Improved Chulha 12 crores 349.8 lakhs

10 Solar Photovoltaic Systems 20 MW/sq. km.

i. Solar Street Lighting Systems - 41403 Nos.
ii. Home Lighting Systems - 187000 Nos.
iii. Solar Lanterns - 396000Nos.
iv. SPV Power Plants - 1188 kWp

11. Solar Water Heating Systems 30 million sq. m 0.60 million sq. m
Collector area Collector area
12. Solar Cooking System

i. Box -type Solar Cookers - 5,18,000 Nos.
ii. Concentrating-type /
Community Cookers - 175 Nos.
13. Solar PV Pumps - 4500 Nos.
14. Wind Pumps - 793 Nos.
15. Hybrid Systems - 127.5 KW

Sq. km. = Square Kilometer
Sq. m. = Square meter
MW = Mega-watt
KW = Kilo watt
kWp = Kilo watt peak
@ = including Biomass Gasifier